

APPLICANT(S): ROTH, Shmuel et al.
SERIAL NO.: 10/500,896
FILED: March 3, 2004
Page 2

AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1. **(Currently amended)** A display for reproducing a proofed image intended for printing on a substrate using a set of inks, the display comprising:

a light source to generate light of a set of at least three [[primary]] colors having at least three different chromaticities, respectively, said chromaticities being selected to define a viewed color gamut which substantially covers a perceived color gamut of said set of inks when printed on said substrate; and

a controller to produce a light pattern corresponding to said proofed image by selectively controlling the path of the light of said at least three [[primary]] colors[[,]]

~~wherein said at least three primary colors are selected to define a viewed color gamut which substantially covers a perceived color gamut of said set of inks when printed on said substrate.~~

2. **(Original)** The display of claim 1 comprising a correction filter, the spectrum of the correction filter being based on the spectrum reflected from a type of said substrate.

3. **(Previously presented)** The display of claim 1 comprising a correction filter, the spectrum of the correction filter being based on the spectrum of an intended light used to view the proofed image when printed on said substrate.

4. **(Previously presented)** The display of claim 1 wherein the light source includes at least a plurality of light emitting diodes.

5. **(Currently Amended)** The display of claim 1, wherein the light source includes at least:

a polychromatic source to generate polychromatic light; and

~~a color filtering mechanism to sequentially generate the light of said at least three light beams of said at least three primary colors [[, respectively,]] by filtering said polychromatic light.~~

APPLICANT(S): ROTH, Shmuel et al.
SERIAL NO.: 10/500,896
FILED: March 3, 2004
Page 3

6. **(Currently Amended)** The display of claim 1, wherein said at least three [[primary]] colors comprise at least four [[primary]] colors.
7. **(Currently Amended)** The display of claim 1, wherein the light source produces light of three [[primary]] colors, the transmission spectra of which define said viewed color gamut.
8. **(Original)** The display of claim 1 comprising a spatial light modulator.
9. **(Original)** The display of claim 1 comprising a digital micro-mirror device.
10. **(Currently amended)** A method for reproducing a proofed image intended for printing on a substrate using a set of inks, the method comprising:

~~accepting data corresponding to said proofed image;~~
~~converting said data into data corresponding to a set of at least three colors;~~
~~[[selectively]] producing light of [[said]] at least three [[primary]] colors having at least three different chromaticities, respectively, said chromaticities being selected to define a viewed color gamut which substantially covers a perceived color gamut of said set of inks when printed on said substrate; and~~

~~[[combining]] selectively controlling the path of the light of said at least three [[primary]] colors to produce a light pattern corresponding to substantially reproduce said proofed image;~~

~~wherein said at least three primary colors are selected to define a viewed color gamut which substantially covers a perceived color gamut of said set of inks when printed on said substrate.~~
11. **(Currently amended)** The method of claim 10 comprising:

accepting image data corresponding to said proofed image; and

converting said image data into converted data corresponding to said at least three colors.

APPLICANT(S): ROTH, Shmuel et al.
SERIAL NO.: 10/500,896
FILED: March 3, 2004
Page 4

~~wherein converting said data comprises converting the data using a conversion matrix said selectively controlling comprises controlling the path of the light of said at least three colors based on said converted data.~~

12. (Original) The method of claim 10 comprising passing light through a correction filter, the spectrum of the correction filter being based on the spectrum reflected from a type of said substrate.

13. (Previously presented) The method of claim 10 comprising passing light through a correction filter, the spectrum of the correction filter being based on the spectrum of an intended light source used to view said proofed image when printed on said substrate.

14. (Currently amended) The method of claim 10, wherein producing light of said at least three [[primary]] colors comprises passing light through a color wheel.

15. (Currently amended) The method of claim 10, wherein said at least three [[primary]] colors include a red [[primary]] color, a green [[primary]] color and a blue [[primary]] color, the transmission spectra of which define said viewed color gamut.

16. (Currently amended) The method of claim 10 comprising spatially modulating the light of said at least three [[primary]] colors.

17. (Currently amended) The device of claim 5, wherein said color filtering mechanism is adapted to sequentially place at least three color filters corresponding to said at least three [[primary]] colors, respectively, in the path of said polychromatic light.

18. (Currently amended) The device of claim 1, wherein said controller controls the path of the light of said at least three [[primary]] colors based on image data representing the proofed image in terms of said at least three [[primary]] colors.

19. (New) The device of claim 1, wherein said light source generates the light of said at least three colors independently of said proofed image.

20. (New) The method of claim 10, wherein producing the light of said at least three colors comprises selectively producing the light of said at least three colors independently of said proofed image.